

# QAPP AMENDMENT FORM

## IRRIGATED LANDS REGULATORY PROGRAM

**COALITION NAME:** EAST SAN JOAQUIN WATER QUALITY COALITION

**WDR ORDER #:** R5-2012-0116\_R3

**QAPP VERSION:** 3.0

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**Date Prepared:** October 4, 2017

**TITLE:** Updated eQAPP containing all constituents and associated Data Quality Objectives for the 2018 Water Year.

**SECTION OF QAPP AFFECTED:** The QAPP sections affected are all tables referencing pesticide analysis. The list of pesticides to be analyzed for are being updated per the Pesticide Evaluation Protocol (PEP) that was disseminated on November 29, 2016 and will be implemented with the 2018 Water Year (2018 WY). The results of the PEP (e.g. which pesticides will be monitored in which months) were included in the 2018 Monitoring Plan Update (MPU) and will be submitted with each MPU moving forward. The QAPP has not been updated to reference the current WDR, monitoring strategy or PEP process for determining which pesticides to be monitored. The Coalition is in the process of revising and submitting a completely revised QAPP. In the meantime, the Coalition has updated its electronic QAPP (eQAPP) to reflect the new analytes and methods referenced in the 2018 MPU. Included in the eQAPP are the analytes, methods, MDLs, RLs, and associated Data Quality Objectives for the 2018 WY. This information in the eQAPP affects the following tables in the QAPP: Table 2 (Constituents and parameters), Table 5 (Data quality objectives for field and laboratory accuracy, precision, and completeness measurements), Table 7 (Data quality objectives for field and laboratory contamination measurements), Table 12 (Sample handling and custody), Table 13 (Field and laboratory analytical methods), Table 15 (Field Sampling QC), and Table 16 (Analytical QC).

Table 1 is a summary of the new analytes and methods that have been added to the eQAPP. Within the eQAPP a column has been included to indicate which analytes were added based on the 2018 MPU and for which this amendment applies. Ten of the new constituents will be analyzed under NCL ME 321 (a modified form of the USGS Method for Determination of Pesticides in Water) and the method is still being developed further for these specific analytes. Therefore, the analytical measurement levels are not available and these analytes are not included in the eQAPP; they are noted in Table 1 as not included in this QAPP amendment

request. MLJ-LLC is working with the laboratory to develop reliable analytical methods for these constituents, and will provide measurement levels as they become available.

**Table 1. New analytes added per the 2018 MPU for the 2018 WY as a result of the Pesticide Evaluation Protocol. Analytes with a "no" in the QAPP Amendment Request Column are not included in this request due to pending method development.**

NEW ANALYTE ADDED FOR 2018 WY	LAB	ANALYTE NAME (TOX=ORGANISM)	METHOD NAME	QAPP AMENDMENT REQUEST (YES/NO)	NOTES
2018 WY	NCL	Ziram	EPA 630	Yes	Mancozeb and thiram are reported as ziram, per method.
2018 WY	NCL	Bromacil	EPA 633	Yes	
2018 WY	APPL	Chlorothalonil	EPA 8081A	Yes	
2018 WY	APPL	Iprodione	EPA 8081A	Yes	
2018 WY	APPL	Norflurazon	EPA 8081A	Yes	
2018 WY	APPL	Oxyfluorfen	EPA 8081A	Yes	
2018 WY	APPL	Tebuconazole	EPA 8081A	Yes	
2018 WY	APPL	Hexazinone	EPA 8141A	Yes	
2018 WY	APPL	Pendimethalin	EPA 8141A	Yes	
2018 WY	APPL	Dicamba	EPA 8151A	Yes	
2018 WY	APPL	Dichlorophenoxyacetic Acid, 2,4-	EPA 8151A	Yes	
2018 WY	NCL	Chloropicrin	EPA 8260BM	Yes	
2018 WY	Caltest	Cinerin-1	EPA 8270C SIM	Yes	Pyrethrin pesticides
2018 WY	Caltest	Cinerin-2	EPA 8270C SIM	Yes	Pyrethrin pesticides
2018 WY	Caltest	Jasmolin-1	EPA 8270C SIM	Yes	Pyrethrin pesticides
2018 WY	Caltest	Jasmolin-2	EPA 8270C SIM	Yes	Pyrethrin pesticides
2018 WY	Caltest	Piperonyl Butoxide	EPA 8270C SIM	Yes	
2018 WY	Caltest	Pyrethrin-1	EPA 8270C SIM	Yes	Pyrethrin pesticides
2018 WY	Caltest	Pyrethrin-2	EPA 8270C SIM	Yes	Pyrethrin pesticides
2018 WY	Caltest	Resmethrin	EPA 8270C SIM	Yes	
2018 WY	Caltest	Bifenthrin	EPA 8270M_NCI	Yes	
2018 WY	Caltest	Cyfluthrin, total	EPA 8270M_NCI	Yes	
2018 WY	Caltest	Cyhalothrin, Total lambda-	EPA 8270M_NCI	Yes	
2018 WY	Caltest	Cypermethrin, Total	EPA 8270M_NCI	Yes	
2018 WY	Caltest	Esfenvalerate/Fenvalerate, Total	EPA 8270M_NCI	Yes	
2018 WY	Caltest	Fenpropathrin	EPA 8270M_NCI	Yes	
2018 WY	Caltest	Permethrin, Total	EPA 8270M_NCI	Yes	
2018 WY	APPL	HpCDD, 1,2,3,4,6,7,8-	EPA 8290A	Yes	Dioxins
2018 WY	APPL	HxCDD, 1,2,3,4,7,8-	EPA 8290A	Yes	Dioxins
2018 WY	APPL	HxCDD, 1,2,3,6,7,8-	EPA 8290A	Yes	Dioxins
2018 WY	APPL	HxCDD, 1,2,3,7,8,9-	EPA 8290A	Yes	Dioxins
2018 WY	APPL	OCDD, 1,2,3,4,6,7,8,9-	EPA 8290A	Yes	Dioxins
2018 WY	APPL	PeCDD, 1,2,3,7,8-	EPA 8290A	Yes	Dioxins
2018 WY	APPL	TCDD, 2,3,7,8-	EPA 8290A	Yes	Dioxins

NEW ANALYTE ADDED FOR 2018 WY	LAB	ANALYTENAME (TOX=ORGANISM)	METHODNAME	QAPP AMENDMENT REQUEST (YES/NO)	NOTES
2018 WY	APPL	Azoxystrobin	EPA 8321A	Yes	
2018 WY	APPL	Imidacloprid	EPA 8321A	Yes	
2018 WY	APPL	Isoxaben	EPA 8321A	Yes	
2018 WY	APPL	Rimsulfuron	EPA 8321A	Yes	
2018 WY	APPL	Sethoxydim	EPA 8321A	Yes	
2018 WY	APPL	Thiamethoxam	EPA 8321A	Yes	
2018 WY	Caltest	Dissolved Organic Carbon	SM 5310 B	Yes	
2018 WY	NCL	Acetamiprid	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Boscalid	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Clothianidin	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Cyprodinil	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Dodine	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Ethalfuralin	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Flumioxazin	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Propiconazole	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Pyraclostrobin	NCL ME 321	No	Not included in this request; method development still in progress.
2018 WY	NCL	Triflumizole	NCL ME 321	No	Not included in this request; method development still in progress.

**JUSTIFICATION:** Due to the revised pesticide monitoring strategy being implemented during the 2018 Water Year, The Coalition will be testing for a number of new constituents. This amendment is to compile all constituents scheduled for 2018 and their associated analytical methods and Data Quality Objectives and Criteria for the 2018 Water Year. The Coalition is developing an updated QAPP with updated laboratory SOPs. Due to the time frame of the first sampling event occurring in October 2017, the Coalition was unable to complete the revised QAPP prior to sampling for the 2018 WY.

**DETAIL OF CHANGES:** See attached eQAPP Excel file.